

**CHEMICALLY-MODIFIED COATINGS FOR ENHANCED
PERFORMANCE OF INK-JET IMAGES**

ABSTRACT OF THE DISCLOSURE

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Ceramic pigment-based, chemically-modified porous coatings can be used for enhancing image permanence of ink-jet image printing. Specifically, a porous coated media sheet, comprising a media substrate, having a porous coating coated thereon comprising a modified ceramic pigment including a fixer group and a stabilizer group, each covalently attached to the ceramic pigment is disclosed. Additionally, a method and system for preparing permanent ink-jet images is also provided.

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